ABSTRACT OF THE DISCLOSURE

A method for testing object-oriented system software having system classes includes examining an application software program including calls to system classes with both a static analysis tool and a dynamic analysis tool. Then both a static use count and a dynamic use count of the system classes are determined. A proportional weighing attribute is assigned to each system class based on its corresponding static use count and dynamic use count. The system classes are then tested in an order determined by the corresponding proportional weighing attributes.